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PTO/SB/50 (02-01)

Approved for use through 01/31/2004. OMB 0651-0033

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

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## REISSUE PATENT APPLICATION TRANSMITTAL

Address to:

Assistant Commissioner for Patents  
Box Reissue  
Washington, DC 20231

Attorney Docket No.	PM 98.061/3
First Named Inventor	Scott C. Hornbostel
Original Patent Number	6,477,113
Original Patent Issue Date (Month/Day/Year)	11/05/2002
Express Mail Label No.	ET558176985US

### APPLICATION FOR REISSUE OF:

(Check applicable)



Utility Patent



Design Patent



Plant Patent

### APPLICATION ELEMENTS (37 CFR 1.173)

1. ☒ Fee Transmittal Form (PTO/SB/56)  
(Submit an original, and a duplicate for fee processing)
2. ☐ Applicant claims small entity status. See 37 CFR 1.27.
3. ☒ Specification and Claims in double column copy of patent  
format (amended, if appropriate)
4. ☒ Drawing(s) (proposed amendments, if appropriate)
5. ☒ Reissue Oath/Declaration (original or copy)  
(37 C.F.R. § 1.175) (PTO/SB/51 or 52)
6. ☒ Power of Attorney
7. Original U.S. Patent currently assigned? ☒ Yes ☐ No  
(If Yes, check applicable box(es))
  - ☒ Written Consent of all Assignees (PTO/SB/53)
  - ☒ 37 C.F.R. § 3.73(b) Statement (PTO/SB/96)
8. ☐ CD-ROM or CD-R in duplicate, Computer Program (Appendix)  
or large table
9. Nucleotide and/or Amino Acid Sequence Submission  
(if applicable, all of the following are necessary)
  - a. ☐ Computer Readable Form (CFR)
  - b. Specification Sequence Listing on:
    - i ☐ CD-ROM (2 copies) or CD-R (2 copies); or
    - ii ☐ paper
  - c. ☐ Statements verifying identity of above copies

### ACCOMPANYING APPLICATION PARTS

10. ☒ Statement of status and support for all changes  
to the claims. See 37 CFR 1.173 (c).
11. ☒ Original U.S. Patent for surrender
  - ☒ Ribboned Original Patent Grant
  - ☐ Statement of Loss (PTO/SB/55)
12. ☐ Foreign Priority Claim (35 U.S.C. 119)  
(if applicable)
13. ☒ Information Disclosure Statement (IDS)/PTO-1449 ☒ Copies of IDS  
Citations
14. ☐ English Translation of Reissue Oath/Declaration  
(if applicable)
15. ☒ Preliminary Amendment
16. ☒ Return Receipt Postcard (MPEP 503)  
(Should be specifically itemized)
17. Other: \_\_\_\_\_

### 18. CORRESPONDENCE ADDRESS



Customer Number or Bar Code Label

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Correspondence address below

Name	ExxonMobil Upstream Research Company				
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NAME (Print/Type)

J. Paul Plummer

Registration No. (Attorney/Agent)

40,775

Signature


J. Paul Plummer

Date

April 16, 2004

Burden Hour Statement: This form is estimated to take 0.2 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Box Reissue, Washington, DC 20231

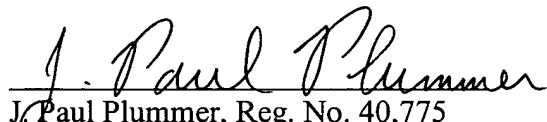
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REISSUE APPLICATION FEE TRANSMITTAL FORM						Docket Number <b>PM 98.061/3</b>		
Claims as Filed - Part 1								
Claims in Patent		Number Filed in Reissue Application	(3) Number Extra	Small Entity		Other than a Small Entity		
				Rate	Fee		Rate	Fee
(A) 20	Total Claims (37 CFR 1.16(j))	(B) 20	**** 0 =	x \$ 9 =	\$0	or	x \$ 18 =	\$0
(C) 5	Independent claims (37 CFR 1.16(i))	(D) 5	* 0 =	x \$ 42 =	\$0		x \$ 84 =	\$0
Basic Fee (37 CFR					\$375			\$750
Total Filing Fee					\$375			\$750
Claims as Amended - Part 2								
	(1) Claims Remaining After Amendment		(2) Highest Number Previously Paid For	(3) Extra Claims Present	Small Entity		Other than a Small Entity	
					Rate	Fee		Rate
Total Claims (37 CFR 1.16(j))	*** 40	MINUS	** 20	* 20	x \$ 9 =	\$180	x \$ 18 =	\$360
Independent Claims (37 CFR 1.16(i))	*** 9	MINUS	***** 5	= 4	x \$ 42 =	\$168	x \$ 84 =	\$336
Total Additional Fee					\$348		OR	\$696
<p>* If the entry in (D) is less than the entry in (C), Write "0" in column 3.</p> <p>** If the "Highest Number of Total Claims Previously Paid For" is less than 20, Write "20" in this space.</p> <p>*** After any cancellation of claims.</p> <p>**** If "A" is greater than 20, use (B - A); if "A" is 20 or less, use (B - 20).</p> <p>***** "Highest Number of Independent Claims Previously Paid For" or Number of Independent Claims in Patent (C).</p> <p><input type="checkbox"/> Applicant claims small entity status. See 37 CFR 1.27.</p> <p><input checked="" type="checkbox"/> Please charge Deposit Account No. <u>05-1328</u> in the amount of <u>\$1,446</u>. A duplicate copy of this sheet is</p> <p><input checked="" type="checkbox"/> The Commissioner is hereby authorized to charge any additional fees under 37 CFR 1.16 or 1.17 which may be required, or credit any overpayment to Deposit Account No. <u>05-1328</u>. A duplicate copy of this sheet is enclosed.</p> <p><input type="checkbox"/> A check in the amount of \$ _____ to cover the filing / additional fee is enclosed.</p> <p><input type="checkbox"/> Payment by credit card. Form PTO-2038 is attached.</p> <p style="text-align: center;"><b>WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.</b></p> <div style="display: flex; justify-content: space-between; margin-top: 20px;"> <div style="width: 40%;"> <p>April 16, 2004</p> <p>_____</p> <p>Date</p> </div> <div style="width: 50%; text-align: center;">  <p>_____ Signature of Applicant, Attorney or Agent of Record</p> <p><b>J. Paul Plummer</b></p> <p>_____ Typed or printed name</p> </div> </div>								

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

Application No. : This application  
Applicant : Scott C. Hornbostel et al.  
Filed : April 16, 2004  
TC/Art Unit : 2857  
Examiner : Unknown  
Docket No. : PM 98.061/3  
Title : Source Waveforms for Electro seismic Exploration

- The following application is an unaltered photocopy of the existing patent.
- Reissue changes are effected by separate amendment paper, also enclosed herewith.

  
J. Paul Plummer, Reg. No. 40,775      April 16, 2004  
Attorney for applicant      Date

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**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

In re application of: <b>Scott C. Hornbostel et al.</b>	§	Group Art No.: <b>2857</b>
	§	
Reissue Application No.: <b>This Application</b>	§	Examiner: <b>Unknown</b>
	§	
Filed: <b>April 16, 2004</b>	§	
	§	
Title: <b>Source Waveforms for Electroseismic</b>	§	
<b>Exploration</b>	§	

**Mail Stop Reissue Application  
Commissioner for Patents and Trademarks  
P. O. Box 1450  
Alexandria, VA 22313-1450**

**STATUS OF CLAIMS AND SUPPORT FOR CLAIM CHANGES  
(37 C.F.R. § 1.173 (C))**

1. The status of the claims as a result of the amendment submitted herewith is:

Claims cancelled:	<u>None</u>
Claims amended:	<u>None</u>
Claims added:	<u>21 - 40</u>


2. The support in the disclosure of the patent for the changes made to the claims and for the claims added is as follows: The independent method claims in the existing patent all include both data acquisition steps and data processing steps. The data acquisition steps must be performed in the field where the geologic formation is. The processing steps need not be and frequently are not, performed in the same country, thus creating an unintended and unforeseen gap in the patent coverage that applicants are entitled to expect. The new claims proposed for addition in this reissue application merely correct this deficiency. A new phrase used in claims 21 and 35 is supported in the original patent at column 1, line 43-44. Therefore there is no issue of support in the disclosure for the new claims. Note that the claims are being broadened only in a territorial jurisdiction sense.

Respectfully submitted,

Date: April 16, 2004

  
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Certification under 37 CFR §§ 1.8(a) and 1.10	
I hereby certify that, on the date shown below, this application/correspondence attached hereto is being:	
<b>MAILING</b>	
<input type="checkbox"/> deposited with the United States Postal Service in an envelope addressed to the Assistant Commissioner for Patents, Washington, D.C. 20231. <div style="text-align: center;">37 C.F.R. § 1.8(a)</div>	<input checked="" type="checkbox"/> as "Express Mail Post Office to Addressee" <div style="text-align: center;">37 C.F.R. § 1.10</div>
<input type="checkbox"/> with sufficient postage as first class mail.	<input checked="" type="checkbox"/> as "Express Mail Post Office to Addressee"
<div style="border: 1px solid black; padding: 2px; text-align: center;">Monica Stansberry</div> <div style="text-align: center; font-size: small;">Typed or printed name of person mailing correspondence</div>	<div style="border: 1px solid black; padding: 2px; text-align: center;">ET558176985US</div> <div style="text-align: center; font-size: small;">Express Mail mailing number</div>
<div style="border: 1px solid black; padding: 2px;">  </div> <div style="text-align: center; font-size: small;">Signature of person mailing correspondence</div>	<div style="border: 1px solid black; padding: 2px; text-align: center;">April 16, 2004</div> <div style="text-align: center; font-size: small;">Date of Deposit</div>
<b>TRANSMISSION</b>	
<input type="checkbox"/> transmitted by facsimile to the Patent and Trademark Office at facsimile number:	